## PATENT COOPERATION TREATY REC'D 14 APR 2005

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From the INTERNATIONAL SEARCHING AUTHORITY

То:			PCT		
see form PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis.</i> 1)			
·		Date of mailing (day/month/year) se	e form PCT/ISA/210 (second sheet)		
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER ACTION See paragraph 2 below			
International application No. PCT/IB2005/050499	International filing date (	day/month/year)	Priority date (day/month/year) 11.02.2004		
International Patent Classification (IPC) or both national classification and IPC G02F1/167					
Applicant KONINKLIJKE PHILIPS ELECTRONICS, N.V.					

	This opinion co	his opinion contains indications relating to the following items:					
	⊠ Box No. I	Basis of the opinion					
	☐ Box No. II	Priority					
	☐ Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	☐ Box No. IV	Lack of unity of Invention					
	⊠ Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	☐ Box No. VI	Certain documents cited					
	☐ Box No. VII	Certain defects in the international application					
	Box No. VIII	Certain observations on the international application					
2.	FURTHER ACTION						
	written opinion o the applicant che International But	emand for international preliminary examination is made, this opinion will usually be considered to be a en opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where pplicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the national Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority ot be so considered.					
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority dawhichever expires later.						
	For further options, see Form PCT/ISA/220.						
3	For further detail	ils, see notes to Form PCT/ISA/220.					

Name and mailing address of the ISA:



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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/050499

	Box N	o. I	Basis of the opinion				
1.	With re	egard iguag	I to the <b>language</b> , this opinion has been established on the basis of the international application in je in which it was filed, unless otherwise indicated under this item.				
	la: (u	ngua nder	Rules 12.3 and 23.1(b)).				
2.	With reneces	egard sary 1	I to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:				
	a. type of material:						
		a s	equence listing				
		tab	le(s) related to the sequence listing				
	b. forn	nat o	f material:				
		in v	vritten format				
		in c	computer readable form				
	c. time	e of f	iling/furnishing:				
		COI	ntained in the international application as filed.				
		file	d together with the international application in computer readable form.				
		fur	nished subsequently to this Authority for the purposes of search.				
3	h C	as b	dition, in the case that more than one version or copy of a sequence listing and/or table relating thereto een filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.				
4	. Addit	ional	comments:				

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-8,12-20

No: Claims

9-11

Inventive step (IS)

Yes: Claims

7

No: Claims

1-6,8-20

Industrial applicability (IA)

Yes: Claims

1-20

No: Claims

2. Citations and explanations

see separate sheet

## Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: US-A-4 931 019 (PARK ET AL) 5 June 1990 (1990-06-05)

D2: PATENT ABSTRACTS OF JAPAN vol. 014, no. 484 (P-1120), 22 October 1990 (1990-10-22) & JP 02 196227 A (TOYOTA MOTOR CORP), 2 August 1990 (1990-08-02)

D3: EP-A-0 395 113 (SEIKO INSTRUMENTS INC) 31 October 1990 (1990-10-31)

1) The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 9 is not new in the sense of Article 33(2) PCT.

The document D1 discloses (see column 4, line 26-42; column 2, line 12-14 and figures 1-5):

a method for activating an electronic paint, the method comprising: applying a bias voltage receiving thermal radiation on a portion of a thermal addressing layer;

absorbing at least a portion of the received thermal radiation in the portion of the thermal addressing layer; and

activating an lectrophoretic inkbased on the absorbed thermal radiation and the applied bias voltage.

The additional feature of claim 10 is disclosed in D1, see figures 2-5. Claim 11 lacks novelty because D1 discloses that the radiation is infrared radiation.

2) The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-6 and 8-20 does not involve an inventive step in the sense -- of Article 33(3) PCT.

The document D2 is regarded as being the closest prior art to the subject-matter of claim 1 and discloses thermal writing of an electrophoretic display. D2 discloses all the features of claim 1, except that D2 does not disclose a thermal addressing layer disposed **on** the lower conductive layer. This feature is however considered as a normal design option for the skilled person, see for example document D3 (figure 1) which discloses a laser addressed liquid crystal light valve with a thermal addressing layer (3) on the electrode (2a).

- 3) Futher to the objection under 2) above: The additional features of claims 2-6 and 8-20 are trivial for the skilled person and therefore also lack inventive step. The application does not mention any further problem which is solved by the additional features of claims 2-6 and 8-20.
- The combination of features of claim 7 is neither known from, nor obvious from, the available prior art. The additional feature of claim 7 solves the problem of uncontrolled cooling of the thermal addressing layer, see page 14, lines 30-32 of the application. Consequently, the combination of features of claim 7 meets the requirements of Article 33 PCT.